

## MISSOURI DEPARTMENT OF TRANSPORTATION MATERIALS ENGINEERING Jefferson City, Missouri

# Test Method MoDOT T10 SPECIFIC GRAVITY COARSE AGGREGATES FOR BITUMINOUS MIXTURES

### 1.0 SCOPE

**1.1** This method covers the procedure for determining the specific gravity of coarse aggregate for use in the design of bituminous mixtures.

### 2.0 PROCEDURES

**2.1** Determine the Bulk Specific Gravity and Apparent Specific Gravity of the plus #4 material in accordance with AASHTO T85. Determine the Specific Gravity of the minus #4 material in accordance with MoDOT T37.

## 3.0 CALCULATIONS

WHERE:

A = Apparent Specific Gravity B = Bulk Specific Gravity

THEN:

Specific Gravity of 
$$=$$
  $\frac{100}{\underline{P_1}}$   $\underline{P_2}$   $\underline{G_1}$   $\underline{G_2}$ 

### WHERE:

 $P_1$  = Percent of minus #4 material.

 $P_2$  = Percent of plus #4 material.

 $G_1$  = Specific Gravity of minus #4 material.

 $G_2$  = Specific Gravity of plus #4 material.

